



REMEDIAL INVESTIGATION/FEASIBILITY STUDY
FIELD OVERSIGHT REPORT
VOLUME II OF II

PHOTOGRAPHIC LOG

OLIN CORPORATION
MCINTOSH PLANT SITE
MCINTOSH, ALABAMA

TES VIII

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY HEADQUARTERS

Work Assignment No.	:	C04054
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EPA Region	:	4
Contract No.	:	68-W9-0005; TES VIII
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**OLIN CORPORATION
MCINTOSH, ALABAMA
RI/FS FIELD ACTIVITIES PHOTO LOG
FILM ROLL 1**

3617

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
1-1	7-22-91	Facing NE toward surveyor's benchmark at weir (origin for transect).
1-2	7-23-91	Facing NE toward weir, surveying water level on lake.
1-3	7-23-91	Facing NE toward the Basin at mouth of drainage ditch and discharge ditch.
1-4	7-24-91	Facing N toward the Basin. Woodward Clyde Consultants (WCC) personnel settin out buoys.
1-5	7-24-91	Facing NE toward the Basin. WCC personnel surveying lake.
1-6	7-24-91	Facing E toward the Basin. WCC personnel surveying lake.
1-7	7-24-91	Facing NE toward the Basin. WCC personnel surveying lake.
1-8	7-24-91	Facing N toward the Basin. WCC personnel surveying lake.
1-9	07-24-91	Facing E toward the Basin. WCC personnel surveying lake.
1-10	07-26-91	Facing E toward the Basin. WCC personnel launching boat for fish survey.
1-11	07-26-91	Facing W toward "No Hunting/Fishing" sign next to the Basin.
1-12	07-26-91	Facing S toward WCC personnel - personnel having problems with equipment.
1-13	07-26-91	Facing S toward shore. Trout lines hung between trees.
1-14	07-26-91	Facing NE toward E shore. WCC personnel netting fish.
1-15	07-26-91	Facing E toward alligator in the Basin.

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**OLIN CORPORATION PHOTO LOG
FILM ROLL 1 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
1-16	07-26-91	Facing E. WCC personnel netting fish.
1-17	07-26-91	Facing N shore. WCC personnel netting fish.
1-18	07-26-91	Facing N shore. WCC personnel netting fish.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 2**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
2-1	08-06-91	Facing N toward the Basin. WCC personnel starting basin sampling activities.
2-2	08-06-91	Facing E toward the Basin. WCC personnel setting up decontamination station.
2-3	08-06-91	Facing W toward decontamination station showing decontamination equipment.
2-4	08-07-91	Facing N toward F10 buoy markers identified the N-S/E-W transect.
2-5	08-07-91	Facing E toward location C10 marker. WCC personnel setting out buoys to mark C transect.
2-6	08-07-91	WCC personnel hand augering at B10 sample location.
2-7	08-07-91	On WCC's barge facing N toward sampler mixing a sample collected at location B10. Note the use of plastic under steel bowl and latex gloves.
2-8	08-07-91	Facing NE on WCC's barge toward samplers collecting sediment sample at location C10. WCC personnel are wearing latex gloves to handle Eckman dredge sampler.
2-9	08-07-91	Facing NW on WCC's barge toward decontamination station. Personnel are using latex gloves, brush, and soapy water to clean Eckman.
2-10	08-07-91	Facing S toward F line buoy marker.
2-11	08-08-91	Facing E toward decontamination station. WCC personnel decontaminating equipment and wearing latex gloves.
2-12	08-08-91	Facing E on WCC's barge toward decontamination equipment wrapped in foil.
2-13	08-08-91	Facing W on WCC's barge toward personnel surveying transect 9. Note safety vests are worn.
2-14	08-09-91	Facing E toward WCC personnel marking transect 9 with buoys.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 2 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
2-15	08-08-91	Facing NE. WCC personnel dropping Eckman at sample location G5-B8.
2-16	08-09-91	Facing NW toward location G5-B8. WCC personnel retrieving a sediment sample.
2-17	08-9-91	Facing NW toward location G5-B8. WCC personnel collecting a sediment sample.
2-18	08-09-91	Facing E toward WCC personnel mixing a sediment sample collected at location G5-B8.
2-19	08-09-91	Facing NW toward WCC personnel recording the water depth at location G5-B8.
2-20	08-09-91	Facing NE toward WCC personnel bottling sediment sample at G5-B8.
2-21	08-09-91	Facing E toward WCC personnel decontaminating Eckman.
2-22	08-09-91	Facing NW toward WCC personnel rinsing Eckman with deionized water.
2-23	08-09-91	Facing NE toward WCC personnel filling out sample labels.
2-24	08-09-91	Facing NW toward locked trailer where samples are stored.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 3**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
3-1	08-10-91	No picture (bad camera angle).
3-2	08-10-91	Facing S toward transect F buoy markers.
3-3	08-10-91	Facing W toward F7 buoy markers.
3-4	08-10-91	Facing E toward WCC personnel marking transect line 6 off of marker F6.
3-5	08-10-91	Facing E toward transect line 7. WCC personnel marking line 7.
3-6	08-10-91	Facing E toward transect line 6. WCC personnel marking line 6.
3-7	08-10-91	Duplicate of photo 3-6.
3-8	08-10-91	Facing W toward location 5G-B8. WCC personnel collecting a sediment sample.
3-9	08-10-91	Facing W toward location 5G-B8. WCC personnel collecting a sediment sample.
3-10	08-10-91	Facing W toward G5-B8. WCC personnel collecting a sediment sample.
3-11	08-10-91	Facing E toward WCC location G5-B8. WCC personnel mixing sediment sample.
3-12	08-10-91	Facing E toward WCC personnel filling sample jars.
3-13	08-10-91	Facing NW toward the decontamination station on the barge. WCC personnel decontaminating Edman
3-14	08-10-91	Facing NW towards the decontamination station. Deconned Eckman sampler is allowed to air dry.
3-15	08-10-91	Camera check

**OLIN CORPORATION PHOTO LOG
FILM ROLL 4**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
4-1	08-11-91	Facing E toward buoys marking transect F7.
4-2	08-11-91	Facing E toward bouys marking transect F7.
4-3	08-11-91	Facing W toward markers on transect F7.
4-4	08-11-91	Facing W toward markers on transect F7.
4-5	08-11-91	Facing N toward the center of F transect.
4-6	08-11-91	Facing NW toward sampling equipment stored on the barge.
4-7	08-11-91	Facing E toward sampling preparation station on the barge.
4-8	08-11-91	Facing W toward location F7. WCC personnel collecting water sample for mercury analysis.
4-9	08-11-91	Facing NW toward location F7. WCC personnel collecting sample for mercury analysis.
4-10	08-11-91	Facing NW toward location F7. WCC personnel collecting sample for mercury analysis.
4-11	08-11-91	Facing NW toward location F7. WCC personnel collecting sediment sample at location F7.
4-12	08-11-91	Facing NW toward location F7. WCC personnel collecting sediment sample at location F7.
4-13	08-11-91	Facing NE toward sampler mixing sediment sample collected from location F7.
4-14	08-11-91	Facing SE toward the decontamination station on the barge.
4-15	08-11-91	Facing NW toward sampler filling sample jars from location F7.
4-16	08-11-91	Facing SE toward the decontamination station on the barge. Sampler decontaminating equipment.
4-17	08-12-91	Facing E toward transect 5.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 4 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
4-18	08-12-91	Facing S toward transect F at location F4.
4-19	08-12-91	Facing SE toward location C3.
4-20	08-12-91	Facing SE toward transect 2. WCC personnel marking transect 2 from boat.
4-21	08-12-91	Facing E toward transect 5.
4-22	08-12-91	Facing E toward WCC personnel marking transect 4.
4-23	08-12-91	Facing W toward WCC personnel.
4-24	08-12-91	Facing W toward WCC personnel.
4-25	08-12-91	Facing E toward transect 4.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 5**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
5-1	08-13-91	Facing W toward decontamination station on WCC barge. WCC personnel decontaminating equipment. Latex gloves are used to handle equipment.
5-2	08-13-91	Facing W toward decontamination station on WCC barge. WCC personnel decontaminating Eckman with a brush.
5-3	08-13-91	Facing W toward decontamination station on WCC barge. Deconned equipment is allowed to air dry.
5-4	08-13-91	Facing E toward location C5. WCC personnel preparing to collect water sample for mercury analysis.
5-5	08-13-91	Facing E toward location C5. WCC personnel collecting water sample for mercury analysis.
5-6	08-13-91	Facing E toward location C5. WCC personnel collecting sediment sample at location C5.
5-7	08-13-91	Facing E toward location C5. WCC personnel collecting sediment sample at location C5.
5-8	08-13-91	Facing SE toward WCC personnel mixing sediment sample collected from location C5. Plastic was placed underneath the sample prep area while sample jars were being filled.
5-9	08-13-91	Facing NW toward decontamination station on WCC's barge. WCC personnel decontaminating Eckman.
5-10	08-13-91	Facing SE toward sample prep area on WCC's barge. WCC personnel filling sample jars with sediment collected from location C5.
5-11	08-13-91	Facing E toward sediment sample location K4. The white buoy marked the approximate location where WCC personnel collected the K4 sample.
5-12	08-13-91	Facing E towards sediment sample location K4. The white buoy marks the approximate location where WCC personnel collected the K4 sample.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 5 (CONTINUED)**

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<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
5-13	08-13-91	Facing E toward sample location K4. WCC personnel collecting sediment sample with Eckman at location K4.
5-14	08-13-91	Facing E toward sample location K4. WCC personnel collecting sediment sample with Eckman at location K4.
5-15	08-13-91	Facing W toward transect 4 buoy markers.
5-16	08-13-91	Facing S toward processing area on WCC's barge. WCC personnel mixing sediment sample collected from location K4.
5-17	08-13-91	Facing N toward the decontamination area. WCC personnel decontaminating Eckman.
5-18	08-13-91	Facing S toward sample prep area. WCC personnel filling sample jars from location K4 for EPA split sample.
5-19	08-13-91	Facing W toward location G3.
5-20	08-13-91	Facing SW toward sample location G3. WCC personnel collecting sediment sample with Eckman at location G3.
5-21	08-13-91	Facing SW toward sample location G3. WCC personnel collecting sediment sample with Eckman at location G3.
5-22	08-13-91	Facing SW toward sample prep area. WCC personnel filling sample jars from location G3 for EPA split sample.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 6**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
6-1	08-13-91	Facing NE toward sample location B4. WCC personnel preparing to sample location B4.
6-2	08-13-91	Facing E toward sample location B4. WCC personnel dropping Eckman into water to collect sediment sample at location B4.
6-3	08-13-91	Facing SE toward location B4. WCC personnel completing sampling of B4 location.
6-4	08-13-91	Facing N toward sample location F-2. WCC barge stuck in shallow sediment while collecting sediment sample at F2.
6-5	08-13-91	Facing N toward sample location F2. WCC personnel freeing the barge from a sand bar at location F2.
6-6	08-13-91	Facing N toward sample location F2. WCC personnel completing sample collection at F2 location.
6-7	08-14-91	Facing N toward location D3. WCC personnel were forced to use a small boat to sample location D3 due to the shallow water in the area.
6-8	08-14-91	Facing N toward buoys used to identify transect locations.
6-9	08-14-91	Facing N toward personnel collecting an equipment rinsate sample.
6-10	08-14-91	Facing E toward WCC personnel collecting rinsate sample into sample jars.
6-11	08-14-91	Facing N toward Ash Pond near residential area.
6-12	08-19-91	Facing NE toward Ash Pond. The pond has a dike around the pond. Water drains to the east.
6-13	08-19-91	Facing NE toward corrective action well.
6-14	08-19-91	Facing W toward Olin fence on the south side of the property.

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**OLIN CORPORATION PHOTO LOG
FILM ROLL 6 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
6-15	08-19-91	Facing NW toward well #5.
6-16	08-19-91	Facing NW toward Olin plant.
6-17	02-19-91	Facing N toward J. Well's residence.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 7**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
7-1	08-20-91	Facing NW toward sample collection materials.
7-2	08-20-91	Facing S toward the Tombigbee River at location SGDD01 in the discharge ditch. WCC personnel marking sample location DD01.
7-3	08-20-91	Facing S toward location SGDD01 in the discharge ditch. Olin's east property line is marked by the red flag. Stream flow is to the SE.
7-4	08-20-91	Facing N toward location SGBD01 located at the mouth of the basin ditch.
7-5	08-20-91	Facing NW toward location SGBD03. WCC personnel preparing to hand auger for sediment sample. Water is flowing NE.
7-6	08-20-91	Facing N toward sediment sample collected from location SGBD03. Sediment was collected in a stainless steel bowl.
7-7	08-20-91	Facing E toward sampler mixing sediment sample collected from location SGBD03.
7-8	08-20-91	Facing NW toward location SGBD05. WCC personnel collecting split sample for EPA. Water is flowing NE.
7-9	08-20-91	Facing NW toward sample location SGBD05. WCC personnel collecting split sample for EPA. Water is flowing to the NE.
7-10	08-21-91	Facing NW toward location SGBD06. WCC personnel collecting sediment sample SGBD06. Water is flowing to the NE.
7-11	08-21-91	Facing SE toward location SGDD01 in discharge ditch. WCC personnel collecting split sample for EPA. Stream flow is NE toward the Tombigbee River.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 7 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
7-12	08-21-91	Facing SE toward location SGDD01 in discharge ditch. WCC personnel collecting sediment samples. At this location a split sample was collected for EPA. Stream flow is to the NE.
7-13	08-21-91	Facing SE toward location SGDD01 in discharge ditch. WCC personnel complete sediment sample collection. Stream flow is to the NE.
7-14	08-21-91	Facing E toward WCC personnel preparing sample SGDD01. The sampler is filling jars for EPA split samples.
7-15	08-21-91	Facing S toward sampler collecting sediment sample in SGDD03 located in discharge ditch. Stream flow is to the W.
7-16	08-21-91	Facing W toward WCC personnel collecting sediment sample SGOD10 located in the outfall ditch. Stream flow is to the S.
7-17	08-21-91	Facing E toward WCC personnel collecting sediment sample SGOD10. Stream flow is to the S.
7-18	08-21-91	Facing S toward WCC personnel collecting sediment sample SGOD11. The stream is flowing toward the SW.
7-19	08-21-91	Same as photo 7-18.
7-20	08-21-91	Facing SW toward Ash Pond.
7-21	08-21-91	Facing N toward WCC personnel collecting water sample SGOD20.
7-22	08-21-91	Facing E toward sampler icing down samples collected from discharge ditches.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 8**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
8-1	08-23-91	W bank of the Basin. Olin personnel preparing to collect sediment sample using Vibracore sampler.
8-2	08-23-91	W bank of the Basin. Oversight personnel B. Thomas.
8-3	08-23-91	W section of the Basin at core location 2. WCC personnel collecting sediment core. Water was added to stabilize sediment.
8-4	08-23-91	W section of the Basin. WCC personnel retrieving sediment core at location 2.
8-5	08-23-91	W section of the Basin. WCC personnel retrieving sediment core at location 2.
8-6	08-23-91	W section of the Basin at core location 2. WCC personnel securing bottom of core.
8-7	08-23-91	W section of the Basin at core location 2. WCC personnel securing top of core.
8-8	08-23-91	W section of the Basin at core location 2. WCC personnel collecting duplicate core sample.
8-9	08-23-91	W section of the Basin at core location 2. WCC personnel collecting duplicate core sample.
8-10	08-23-91	W section of the Basin at core location 2. WCC personnel securing duplicate core sample.
8-11	08-23-91	W section of the Basin at core location 2. WCC personnel preparing to collect a duplicate core sample.
8-12	08-23-91	W section of the Basin at core location 2. WCC personnel preparing to collect a duplicate core sample.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 8 (CONTINUED)**

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<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
8-13	08-23-91	WCC personnel opening sediment core 1 collected from the Basin.
8-14	08-23-91	WCC personnel measuring the length of sediment recovered in core 1.
8-15	08-23-91	WCC personnel measuring the length of sediment recovered in core 1.
8-16	08-23-91	WCC personnel preparing to collect sediment samples from core 1.
8-17	08-23-91	WCC personnel measuring the length of sediment recovered in core 2.
8-18	08-23-91	WCC personnel measuring the length of sediment recovered in core 2.
8-19	08-23-91	WCC personnel measuring the length of sediment recovered in core 2.
8-20	08-23-91	WCC personnel preparing to collect sediment sample from core 2.
8-21	08-23-91	WCC personnel preparing to collect sediment sample from core 2.
8-22	08-23-91	WCC personnel preparing to collected sediment samples from Basin cores.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 9**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
9-1	08-26-91	Oversight contractor's decontamination station used to collect residential soil samples on River Road south of the Olin plant.
9-2	08-26-91	S of Olin plant 185 feet W of S gate at culvert. Oversight contractor collecting residential soil sample RS-01.
9-3	08-26-91	S of Olin plant W of S gate at culvert under River Road. RS01 sampling location marked with red flag.
9-4	08-26-91	Residential sediment sampling location RS02 on S side of River Road at culvert adjacent to Ferrell property at culvert.
9-5	08-26-91	Residential sample location RS03 located 88 feet S behind Moss residence.
9-6	08-26-91	Residential sample location RS03 located 88 feet S behind Moss residence.
9-7	08-26-91	Residential sample location RS04SE of Moss residence at the dirt road on the W side of culvert.
9-8	08-26-91	Residential sample location RS05 located on the NE corner of Moss residence.
9-9	08-26-91	Residential sample location RS05 located on the NE corner of Moss residence.
9-10	08-27-91	Toward the mouth of the former discharge ditch. WCC personnel collect sediment samples.
9-11	08-27-91	WCC personnel complete sediment core sample at the mouth of the former discharge ditch.
9-12	08-27-91	Core sample location S6-C3. WCC preparing to collect sediment from core 3.
9-13	08-27-91	WCC personnel preparing to collect sediment from core S6-C3.

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**OLIN CORPORATION PHOTO LOG
FILM ROLL 9 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
9-14	08-27-91	WCC personnel preparing to sample core S6-C3.
9-15	08-27-91	WCC personnel preparing to sample core SC-C3.
9-16	08-27-91	Top of sediment core SC-C3.
9-17	08-27-91	Bottom of sediment core SC-C3.
9-18	08-27-91	Same as 9-17.
9-19	08-27-91	Facing S toward main effluent ditch at location SCOD06.
9-20	08-27-91	Collecting water sample in main effluent ditch.
9-21	08-27-91	Sealed sample shipment coolers.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 10**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
10-1 through 10-4		No pictures
10-5	08-26-91	W shore of the Basin.
10-6	08-26-91	SE shore of the Basin.
10-7	08-26-91	W section of the Basin. WCC personnel preparing to recollect samples lost during shipment.
10-8	08-26-91	WCC personnel preparing to recollect samples from the Basin.
10-9	08-26-91	W shore of the Basin. The hydrology indicators show that this shore is underwater during the flood season.
10-10	08-26-91	S section of the Basin. WCC personnel collecting sediment samples from F-2 sample location.
10-11	08-26-91	NW shore of the Basin.
10-12	08-26-91	NE section of the Basin.
10-13	08-26-91	NW section of the Basin. Buoys mark sampling locations.
10-14	08-26-91	NW shore of the Basin. Buoys mark sampling locations.
10-15	08-26-91	NE shore of the Basin. WCC personnel preparing to survey.
10-16	08-26-91	W shore of the Basin. WCC personnel surveying sample locations.
10-17	08-26-91	NW section of the Basin. WCC personnel determining sample locations.
10-18	08-26-91	SE section of the Basin. WCC personnel determining Basin sample locations.
10-19	08-26-91	Same as 10-18.
10-20	08-26-91	S section of the Basin at WCC's decontamination area.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 10 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
10-21	08-26-91	S section of the Basin. WCC personnel decontaminating Eckman dredge sampler.
10-22	08-26-91	S section of the Basin. WCC personnel collecting rinsate water sample.
10-23	08-26-91	SW section of the Basin. WCC personnel preparing to collect sediment sample in the Basin ditch.
10-24	08-26-91	SW section of the Basin. WCC personnel collecting sediment sample at location BD01.
10-25	08-26-91	SW section of the Basin. WCC personnel collecting sediment sample at location BD01.
10-26	08-26-91	SW section of the Basin. WCC personnel collecting sediment sample at location BD01.
10-27	08-26-91	SW section of the Basin. WCC personnel collecting sediment sample at location BD01.
10-28	08-26-91	S section of the Basin. WCC personnel collecting sediment sample at location DD01 (former discharge ditch).
10-29	08-26-91	S section of the Basin. WCC personee collecting sediment sample at location DD01.
10-30	08-26-91	S section of the Basin. WCC personnel collecting sediment sample at location DD01.
10-31	08-26-91	W section of Olin plant in the outfall ditch at sample location OD25.
10-32	08-26-91	WCC personnel collecting sediment sample at location OD25.
10-33	08-26-91	W section of Olin plant. WCC personnel preparing sediment sample OD25.
10-34	08-26-91	W section of the Basin. WCC personnel preparing to core at core location 1.
10-35	08-26-91	W section of the Basin. WCC personnel preparing to core at core location 1.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 10 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
10-36	08-26-91	SW section of the Basin. WCC personnel collecting core sample 1.
10-37	08-26-91	SW section of the Basin. WCC personnel collecting core sample 1.
10-38	08-26-91	SW section of the Basin. WCC personnel collecting core sample 1.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 11**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
11-1	09-11-91	W section of Olin property, coordinates N1000, W5000. WCC recording water level at monitoring well PL45.
11-2	09-12-91	N central section of Olin property (N5250, E700). WCC Sampling monitoring well WP-9A, designated as a background well.
11-3	09-12-91	SE section of Olin property (S100, E5000). WCC purging well PL90.
11-4	09-12-91	SE section of Olin property (S100, E5000). WCC collecting samples with a well wizard pump.
11-5	09-12-91	SE section of Olin property (S100, E500). WCC recording water parameters (pH, temperature, conductance) at well PL90.
11-6	09-12-91	SE section of Olin property (S100, E500). WCC collecting ground water sample at well PL9D.
11-7	09-13-91	SE section of Olin property (S250, E4250) at well PL8S. Purged well water in contained in 55 gallon drums.
11-8	09-13-91	W central section of Olin property (N1300, W1600). Setting up ground water sampling equipment at well WP-6.
11-9	09-15-91	W central section of Olin property (N2900, W2200). WCC decontaminating 2" centrifugal pump before purging well DH-3.
11-10	09-16-91	S central section of Olin property at well location E-1. WCC purging well with well wizard.
11-11	09-16-91	S central section of Olin property at well MP-15. WCC pouring ground water into sample bottle.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 12**

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<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
12-1	09-26-91	Large wetland N of brine wells located on the west side of Olin Road.
12-2	09-26-91	Large wetland N of brine wells located on the west side of Olin Road.
12-3	09-26-91	Large wetland N of brine wells. located on the west side of Olin Road.
12-4	09-26-91	Tombigbee River at Olin barge docks located east of Olin plant.
12-5	09-26-91	Former Lagoon SE of Olin plant off of River Road.
12-6	09-26-91	Wildflower of unknown species along River Road S of Olin plant.
12-7	09-26-91	Olin Outfall ditch which currently discharges wastewater to Tombigbee River.
12-8	09-27-91	Confluence of the outfall ditch and Basin discharge ditch to Tombigbee River.
12-9	09-27-91	Outfall ditch.
12-10	09-27-91	Basin weir which controls flow of plant wastewater from flowing into the Basin.
12-15	09-30-91	OU-2 Vegetative stress survey, plot 1-2. WCC personnel characterizing dead plants.
12-16	09-30-91	WCC personnel identifying grass in plot 1-3.
12-17	09-30-91	Area near plot 1-3, indicating areas of burned or melted plastic.
12-18	09-30-91	Area near plot 1-3, indicating patches of burned or melted plastic.
12-20	10-01-91	WCC personnel conducting vegetation study.
12-22	10-01-91	Cypress trees in NE section of the Basin.
12-23	10-01-91	Surveying plants on NE side of the Basin.
12-24	10-01-91	Same as 10-23.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 13**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
13-1	10-01-91	WCC collecting grass samples for vegetation survey.
13-2	10-01-91	Surveying vegetation at Plot 2-5.
13-3	10-02-91	Same as 13-2.
13-4	10-02-91	Characterizing grasses at plot 4-3.
13-5	10-02-91	Conducting vegetation survey at plot 4-3.
13-6	10-02-91	Characterizing grasses at plot 4-3.
13-7	10-02-91	Characterizing grass at plot 4-4.
13-8	10-02-91	Characterizing herbaceous vegetation at plot 4-4.
13-9	10-02-91	Identifying overstory of oaks and cypress at plot 4-5.
13-10	10-02-91	Same as 13-9.
13-11	10-02-91	Identifying oak species at plot 6-6.
13-12	10-02-91	WCC surveying rattlesnake grass.
13-13	10-02-91	Identifying grasses at plot 7-5.
13-14	10-02-91	Identifying grasses at plot 7-5.
13-15	10-03-91	Surveying vegetation at plot 7-6.
13-16	10-03-91	Same as 13-15.
13-17	10-03-91	SE section of the basin near Tombigbee at plot 9-6.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 13 CONTINUED**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
13-18	10-03-91	Surveying vegetation at plot 4-1.
13-19	10-03-91	Surveying vegetation at plot 6-1.
13-20	10-04-91	Surveying water elm and grapevines at plot 3-2.
13-21	10-04-91	WCC personnel under the cover of two large oaks at plot 3-4.
13-22	10-04-91	Oak and cypress seedling at plot 3-6.
13-23	10-04-91	WCC personnel examines water mark on pipeline at plot 3-5.
13-24	10-04-91	One large sycamore and two small elms present at plot 8-7.
13-25	10-04-91	E section of the Basin. Cypress tree roots emerging from the water.
13-26	10-04-91	W section of the Basin. WCC personnel collecting cypress tree core at plot 8-6.
13-30	11-05-91	N section of the Basin. WCC personnel using fish shocking apparatus.
13-31	11-05-91	N section of the Basin. WCC personnel netting fish brought to the surface from electrical shock.
13-32	11-05-91	WCC personnel conducting fish sampling in the Basin. Largemouth bass caught in net.
13-33	11-05-91	N section of the Basin. WCC personnel conducting fish sampling in the Basin. Largemouth bass in catch bucket.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 14**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
14-1	11-06-91	Two hopnets along the NE section of Olin's Basin.
14-2	11-06-91	NE section of Olin's Basin. WCC's electroshocking equipment.
14-3	11-06-91	NE section of Olin's Basin. WCC's electroshocking equipment.
14-4	11-06-91	Three large mouth bass caught during electroshocking.
14-5	11-06-91	WCC weighing fish caught from hoopnet.
14-6	11-06-91	WCC personnel removing fish from a gillnet.
14-7	11-07-91	Fish collected from gillnet.
14-8	11-07-91	NE section of Olin's Basin. WCC personnel retrieving gillnet.
14-9	11-07-91	North Central section of Olin's Basin. WCC personnel retrieving gill net from lake.
14-10	11-07-91	North Central section of Olin's Basin. WCC personnel retrieving gillnet.
14-11	11-07-91	E section of Olin's Basin. WCC personnel retrieving gillnet.
14-12	11-07-91	WCC personnel weighing and measuring fish collected in gillnet.
14-13	11-07-91	WCC personnel weighing fish collected in gillnet.
14-14	11-07-91	WCC personnel set up to prepare fish samples at the field trailer.
14-15	11-07-91	WCC personnel preparing fish samples.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 14 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
14-16	11-07-91	WCC personnel preparing fish samples.
14-17	11-07-91	WCC personnel filleting fish sample.
14-18	11-07-91	WCC personnel filleting largemouth bass sample.
14-19	11-07-91	Poor quality photo.
14-20	11-07-91	WCC personnel filleted channel catfish sample.
14-21	11-13-91	WCC personnel prepares to collect a core sample at location I-7.
14-22	11-13-91	WCC personnel retrieving core barrel from location I-7.
14-23	11-13-91	WCC's crew retrieving core from location I-7.

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**OLIN CORPORATION PHOTO LOG
FILM ROLL 15**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
15-2	11-13-91	WCC personnel cutting core sample pipe.
15-3	11-13-91	WCC personnel separating core pipe and preparing to mark depth on visqueen.
15-4	11-13-91	WCC personnel marking depths on visqueen and preparing to collect samples.
15-5	11-13-91	WCC personnel marking depths on visqueen and preparing to collect samples.
15-6	11-13-91	WCC personnel putting samples in sample jars.
15-7	11-13-91	WCC personnel driving in core barrel at OD-15 located in the outfall ditch.
15-8	11-14-91	Core sample OD-15. Note several layers of white substance in the core.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 16**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
16-1	08/11/92	Decontamination area for sampling equipment.
16-2	08/11/92	Covered decontamination area for drilling equipment and drill rigs.
16-3	08/12/92	View of Olin facility from Lime Pond #1, facing NE.
16-4	08/12/92	Drill rig set up on Lime Pond #1, boring #1, facing SW.
16-5	08/12/92	Lime material obtained from Lime Pond #1, boring at approximately 14 feet deep.
16-6	08/12/92	Split spoon collected from 18-20 feet depth from lime pond #1 boring.
16-7	08/13/92	Split spoon collected from 8-10 feet depth from Strong Brine Pond, showing transition from fill to natural clay.
16-8	08/13/92	Drilling rig set up on Strong Brine Pond, boring #1, facing NE. Weak Brine Pond is the elevated, vegetated area in the background.
16-9	08/14/92	Drill rig set up on south end of pH Pond facing.
16-10	08/16/92	Drill rig set up on Lime Pond #2 located west of Olin Road, facing NE.
16-11	08/16/92	Split spoon collected from Lime Pond #2 boring at 12-14 feet depth intervals showing lime wastes and ash.
16-12	08/18/92	Smaller drill rig set up on S side of Brine Filter Backwater Pond (in foreground) facing SW.
16-13	08/18/92	Brine Filter Backwater Pond showing corrective action well in background, facing E.
16-14	08/19/92	Soil sample being extruded from Shelby tube sampler. Sample collected from Sanitary Landfill.
16-15	08/19/92	Drill rig set up in Sanitary Landfill, facing SE.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 16 (CONTINUED)**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
16-16	08/19/92	Ash material collected from 8-10 feet intervals from boring #1 in Sanitary Landfill.
16-17	08/29/92	Sediment sampling location SG-FP-38 located in facility outfall ditch.
16-18	08/29/92	WCC representative collecting sediment sample SG-FP-35 approximately 100 feet E of wier at boat ramp.
16-19	08/29/92	Sediment sampling location SG-FP-36.
16-20	08/29/92	Sampling location SG-FP-29 located just W of basin and E of Ciba pipeline.
16-21	08/30/92	Samplers located on river side of Round Pond.
16-22	08/30/92	Mark Pepper (WCC) collecting sample from SG-FP-24 sampling location.
16-23	08/30/92	Wetland area near Round Pond, showing cypresses with buttressed trunks.

**OLIN CORPORATION PHOTO LOG
FILM ROLL 17**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
17-1	08/11/92	Drillers at CPC plant site starting pilot hole.
17-2	08/14/92	The pH Pond, located on the E side of the facility.
17-3	08/14/92	WCC and Layne personnel drilling at pH Pond S boring.
17-4	08/14/92	Boring on the N end of pH Pond by hand auger.
17-5	08/15/92	Drill rig set up on NW boring location of CPC landfill. WCC and Layne personnel working in level B.
17-6	08/15/92	WCC personnel logging split spoon sample collected from CPC landfill (BOP 1 location).
17-7	08/15/92	Drillers in decontamination area after leaving exclusion zone.
17-8	08/18/92	CPC plant landfill, boring BOP 2 showing augers with white material.
17-9	08/16/92	WCC personnel air monitoring at CPC Plant Landfill Boring (BOP 1).
17-10	08/21/92	Layne drilling and WCC sampling crew preparing to collect subsurface samples in CPC Plant Landfill (BOP 1).
17-11	08/21/92	Self-contained breathing apparatus used for level B drilling at CPC Plant Landfill (BOP 1).
17-12	08/21/92	Logging subsurface soil sample collected with Shelby tube at CPC Plant Landfill.
17-13	08/21/92	Decontamination area used for level B drilling and sampling activities at CPC Plant Landfill.
17-14	08/21/92	Drill rig set up on CPC Plant Landfill (BOP 1) showing exclusion zone and decontamination area.
17-15	08/21/92	Drilling at mercury cell plant location (BMC 1).
17-16	08/21/92	Drilling through concrete pad at the Mercury Waste Pile Storage Pad.

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**OLIN CORPORATION PHOTO LOG
FILM ROLL 18**

<u>ROLL- PHOTO NO.</u>	<u>DATE</u>	<u>PHOTO DESCRIPTION</u>
18-1 through 5	09/02/92	Bad photos.
18-6	09/02/92	Background macroinvertebrate sampling at Lake Hatchitigbee.
18-7	09/02/92	Sediment and macroinvertebrate background sampling at Lake Hatchitigbee.
18-8	09/02/92	WCC personnel conducting benthic macroinvertebrate sampling at Lake Hatchitigbee, designated as the control area.
18-9	09/02/92	N end of Lake Hatchitigbee, used as background sampling location.
18-10	09/02/92	S end of Lake Hatchitigbee.